

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Wei-Kan Chu, et al.

U.S. App. Ser. No.: Unknown

Filing Date: July 17, 2003

Examiner: Unknown

Group No.: Unknown

Invention: METHOD TO OVERCOME INSTABILITY OF ULTRA-SHALLOW  
SEMICONDUCTOR JUNCTIONS

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**Information Disclosure Statement**

Dear Sir:

As listed on the accompanying form PTO-1449, applicants submit with this, copies of the indicated references, which applicants believe may be material to the examination of the above-identified application, and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made, an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. Further, the filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Written notification that the enclosed references have been considered in their entirety by return of a copy of the enclosed form, completed by the Examiner, is respectfully requested.

**Identification Of Time Of Filing The  
Information Disclosure Statement**

[X] This Information Disclosure Statement is being filed within three months of the filing date of the national application.

- ☐ This Information Disclosure Statement is being filed within three months of the date of entry of the national stage as set forth in §1.491 in an international application.
- ☐ This Information Disclosure Statement is being filed before the mailing date of the First Office Action on the merits.
- ☐ This Information Disclosure Statement is being filed after three months of the filing date of the national application or after three months of the date of entry of the national stage as set forth in § 1.491 in an international application or after the mailing date of the first Office Action on the merits, but before the mailing date of either a final action under § 1.113 or a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application.

Accompanying this transmittal is:

- ☐ a statement specified in 37 CFR § 1.97(e); or
- ☐ a fee set forth in 37 CFR § 1.17(p)
- ☐ This Information Disclosure Statement is being filed after the mailing date of a final action under § 1.113, or a notice of allowance under § 1.311 but before the payment of the issue fee.

Accompanying this transmittal is:

1. a statement as specified in 37 CFR § 1.97(e); and
2. a fee set forth in 37 CFR § 1.17(p)

**Statement For Information Disclosure Statement 37 CFR 1.97(E)**  
(Only if Required Above)

I, the person(s) signing below hereby states that:

- ☐ each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. 37 CFR § 1.97(e)(1); or
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in the counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. 37 CFR § 1.97(e)(2).

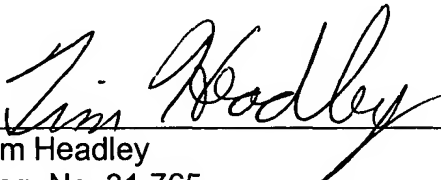
**Fee Payment**

- [ ] attached is a check in the amount of \$
- [ ] charge Deposit Account No. 07-0153  
in the amount.  
**A duplicate of this request is attached.** \$ \_\_\_\_\_

Applicants believe that no additional fees are due for the filing of this IDS. However, if any additional fees are due, or any overpayments have been made, please charge or credit Deposit Account No. 07-0153.

Respectfully submitted,

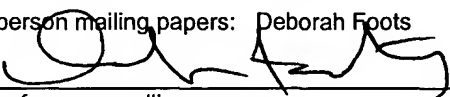
Date: 7-17-03

  
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DATE OF DEPOSIT: 7/17/03

These papers are being deposited with the U.S. Postal Service Express Mail Post Office to Addressee service under 37 CFR § 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Name of person mailing papers: Deborah Foots

  
\_\_\_\_\_  
Signature of person mailing papers

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>	Docket Number (Optional) <b>123029-1015</b>	Application Number <b>Unknown</b>
	Applicant(s) <b>Wei-Kan Chu, et al.</b>	
	Filing Date <b>July 17, 2003</b>	Group Art Unit <b>Unknown</b>

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,169.798	12/8/92	Eaglesham et al.	437	81	6/28/90
		6,362,081 B1	3/26/02	Chuang	438	522	7/7/00

FOREIGN PATENT DOCUMENTS								
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
						YES	NO	

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
		Lin Shao et al. " Stability Studies of Ultra-Shallow Junction Formed by Low Energy Boron Implant and Spike Annealing". J. Appl. Phys.Vol. 92, No. 10, pp. 5788-5792 (2002).
		P.E. Thompson and J. Bennet, "Formation and Thermal Stability of Ultra-Shallow p+ Junctions in Si and Si1-xGex Formed By Molecular Beam Epitaxy", J. Appl. Phys.Vol. 92, No. 11, 6845-6850 (2002).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>		Docket Number (Optional)		Application Number	
		123029-1015		Unknown	
		Applicant(s)			
		Wei-Kan Chu, et al.			
		Filing Date		Group Art Unit	
		July 17, 2003		Unknown	
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>				
		Aliette Mouroux, et al., "Phase Formation and Resistivity In The Ternary System Ti-Nb-Si", J. Appl. Phys. Vol. 86, No. 4, 2323-2329, (1999).			
EXAMINER		DATE CONSIDERED			
<b>*EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					